



#### IN THE UNITED STATES PATENT & TRADEMARK OFFICE

\*CANT: D. J. Kempf et al.

PATENT NO.: 5,541,206

ISSUE DATE: July 30, 1996

FOR: RETROVIRAL PROTEASE INHIBITING

COMPOUNDS

SERIAL NO.: 08/423,387

FILED: April 25, 1995

**EXAMINER: J. Fan** 

CASE NO.: 4681.US.C4

**GROUP ART UNIT: 1203** 

Batch No.: U76

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient

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to the:

**Assistant Commissioner for Patents** 

Washington, D.C. 20231

Date of Deposit: April 7, 1998

Amy I Wartin

Date

#### REQUEST FOR CERTIFICATE OF CORRECTION

### CERTIFICATE

Assistant Commissioner for Patents Washington, D.C. 20231

APR 1 4 1998

Dear Sir:

#### **OF CORRECTION**

Upon review of the final printed copies of the above-identified patent and comparison with the application file, Applicants have identified errors in the patent as printed. Accordingly Applicants request that a Certificate of Correction be issued pursuant to 35 U.S.C. 254 for this patent as set forth on the attached Form PTO 1050, identifying errors by column and line from the patent. Since these errors appear to be due to the fault of the Patent and Trademark Office, no fee is due.

Abbott Laboratories 100 Abbott Park Road

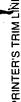
Abbott Park, IL 60064-3500

Telephone: (847)937-9516 Facsimile: (847) 938-2623 Respectfully submitted, D. J. Kempf et al.

Steven R. Crowley

Registration No. 31,604

Agent for Applicants



# PRINTER'S TRIM

#### UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. :

5,541,206

**DATED** 

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-indentified patent and that said Letters Patent is hereby corrected as shown below:

Column 3, line 55, change "AI" to --A1--.

Column 8, line 46, change "4 thiazolyl" to --4-thiazolyl--.

Column 8, line 58, change "valinyl" to -- -valinyl--.

Column 8, line 66, change "valinyl" to -- -valinyl--

Column 8, line 66, change "methoxycarbonyl)amino" to --thiazolyl)methoxycarbonyl)amino--

Column 9, line 2, change "amino)carbonyl" to --amino)-carbonyl--

Column 9, line 3, change "amino-" to --amino)- --

Column 9, line 6, change "amino)carbonyl)" to --amino)-carbonyl)

Column 9, line 7, change "amino)1" to --amino-1--.

Column 9, line 14, change "amino)carbonyl)" to --amino)-carbonyl)

Column 9, line 18, change "amino)carbonyl)" to --amino)-carbonyl

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#### UNITED STATES PATENT AND TRADEMARK OFFICE

### **CERTIFICATE OF CORRECTION**

PATENT NO. :

5,541,206

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-indentified patent and that said Letters Patent is hereby corrected as shown below:

Columns 9 and 10, scheme 1, lines 50-55, change

Columns 13 and 14, scheme 3, line 43, change "NO<sub>2</sub>" to --NH<sub>2</sub>--.

Column 17, line 34, change "(:or" to --(or--.

Column 20, line 42, change "XL. III" to --XLIII--.

Column 26, line 54, change "2.5" to --2,5--.

Column 26, line 55, change "3.4" to --3,4--.

Column 26, line 55, change "1.6" to --1,6--.

Column 26, line 56, change "2.5" to --2,5--.

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PATENT NO. \_\_\_\_\_\_5,541,206

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⊏>—

PATENT NO. :

5,541,206

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-indentified patent and that said Letters Patent is hereby corrected as shown below:

Column 26, line 56, change "3.4" to --3,4--.

Column 26, line 57, change "1.6" to --1,6--.

Column 27, line 53, change "1.6" to --1,6--.

Column 27, line 64, change "amino)1," to --amino)-1,--.

Column 28, line 10, change "2.5" to --2,5--.

Column 28, line 45, change "Thioformamide," to --Thioformamide.--

Column 31, line 41, change "1.6" to --1,6--.

Column 31, line 60, change "1H 7.85" to --1H), 7.85--.

Column 33, line 6, change "4thiazolyl" to --4-thiazolyl--.

Column 33, line 27, change "-amino)" to -- amino)--.

Column 34, lines 29-30, change "thiazolylmethyl" to --thiazolyl)methyl--

Column 34, line 31, change "1.6" to --1,6--.

Column 35, line 2, change "amino-2" to --amino)-2--.

Column 35, line 3, change "amino)-6" to --amino)-1,6--.

Column 35, line 15, change "2-1-isopropylthiazole" to --2-Isopropylthiazole--.

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### UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. :

5,541,206

**DATED** 

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-indentified patent and that said Letters Patent is hereby corrected as shown below:

Column 35, line 44, change "1H" to --1H),--.

Column 36, line 3, change "d)," to --(d,--.

Column 36, line 8, change ",5-" to -- -5- --.

Column 36, line 10, change "1.6" to --1,6---

Column 36, line 22, change "1.6" to --1,6--.

Column 37, line 11, change ",2-" to -- -2- --. (

Column 37, line 15, change "1867H)." to --1867).--.

Column 38, lines 5 and 6, delete "-5-(tert-Butyldimethylsilyloxy)"

Column 38, line 6, change "butyloxycarbonylamino-" to --butyloxycarbonylamino)- --.

Column 38, line 57, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 39, line 36, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)-

Column 40, line 36, change "(N,N-Dimethylamino)" to --(N-((2-(N,N-Dimethylamino--.

Column 43, line 13, change "-thiazolyl)" to -- -4-thiazolyl)--

Column 43, lines 21 and 22, change "(DMSO- $d_6H$ )" to --(DMSO- $d_6$ )-

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PATENT NO. :

5,541,206

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-indentified patent and that said Letters Patent is hereby corrected as shown below:

Column 43, line 27, change "amino}" to --amino)--.

Column 43, line 33, change "1.6" to --1,6--.

Column 43, line 63, change "propyl" to --Isopropyl--.

Column 44, line 5, change "N" to --(N--.

Column 44, line 7, change "1.6" to --1,6--.

Column 44, line 9, change "methyl)N-" to --methyl-N- --.

Column 44, line 22, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>)--

Column 47, line 10, change "-4-nitrophenyl)" to -- -(4-nitrophenyl)--

Column 47, line 39, change "(2S,3S,5S)" to --(2S,3S,5S)--.

Column 47, line 40, change "-2," to -- -2- --.

Column 47, line 41, change "1.6" to --1,6--.

Column 47, line 47, change "N(-" to --N- --.

Column 47, line 58, change "(M+NH<sub>4</sub>H)+" to --(M+NH<sub>4</sub>)+--.

Column 48, line , change "amino)1," to --amino)-1,--.

Column 48, line 25, change "1Hydroxymethyl)" to --(Hydroxymethyl)--

Column 48, line 41, change "(DMSO-d6)" to --(DMSO-d6)--

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PATENT NO. :

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DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 49, line 32, change "4dimethylaminopyridine" to --4-dimethylaminopyridine--.

Column 50, line 4, change "thiazolyl/" to --thiazolyl)--.

Column 50, line 5, change "methylaminocarbonyl)" to --methyl)amino)carbonyl)--.

Column 51, line 42, change "1.,6" to --1,6--.

Column 51, line 51, change "1,-Diethoxy" to --1,1-Diethoxy--.

Column 51, line 23, change "(methoxymethyl)thiazole" to --(methoxymethyl)-thiazole--.

Column 52, line 28, change "-3hydroxyhexane" to --- -3-hydroxyhexane--.

Column 53, line 3, change "2.68;" to --62.68;--.

Column 53, line 8, change "-6-diphenyl" to -- -1,6-diphenyl-

Column 53, line 11, change "amino--" to --amino-2- --.

Column 53, line 20, change "(DMSO- $d_6$ ),5" to --(DMSO- $d_6$ )  $\delta$ --.

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TORMPTO 1050 (Rev. 2-93)

PATENT NO. :

5,541,206

**DATED** 

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 53, line 37, change "-8-" to -- -2- --.

Column 54, line 2, change "carbonyl.)" to --carbonyl)--.

Column 57, line 5, change "-16-diphenyl" to --1,6-diphenyl--.

Column 57, line 26, change "(2S,3R,4, R,5S)" to --(2S,3R,4R,5S

Column 58, line 27, change "4,dihydroxy" to --4-dihydroxy

Column 59, line 29, change "1.6" to --1,6--.

Column 59, line 37, change "(2S,3 8,5S)" to --(2S,3S,5S)--.

Column 59, line 63, change "5thiazolyl" to --5-thiazolyl--.

Golumn 60, line 45, change "-4oxazolyl" to -- -4-oxazolyl)

Column 60, line 61, change "valinyl)-5-" to --valinyl)amino)-5-

Column 61, line 52, change "-4oxazolyl)" to -- -4-oxazolyl)-

Column 61, line 56, change "4thiazolyl)" to --4-thiazolyl)--

Column 61, line 64, change "4oxazolyl)" to --4-oxazolyl--.

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5,541,206

PATENT NO.

5,541,206

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 61, line 66, change "5isoxazolyl)" to --5-isoxazolyl)--.

Column 62, line 1, change "4thiazolyl)" to --4-thiazolyl)--.

Column 62, line 6, change "carbonyl)" to ---carbonyl)--.

Column 62, line 10, change "carbonyl)" to ---carbonyl)--.

Column 62, line 15, change "amino)1" to --amino)-1--.

Column 62, line 21, change "carbonyl)" to ---carbonyl)--.

Column 62, line 41, change "valinyl)-2-" to --valinyl)amino)-2
Column 63, line 1, change "4thiazolyl)" to --4-thiazolyl)--.

Column 63, line 14, change "carbonyl)" to ---carbonyl)--.

Column 63, line 37, change "amino)" to ---carbonyl)--.

Column 64, line 2, change "carbonyl)" to ---carbonyl)--.

Column 64, line 6, change "amino)" to ---carbonyl)--.

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PATENT NO.

5,541,206

**DATED** 

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PATENT NO. :

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INVENTOR(S):

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PATENT NO. :

5,541,206

**DATED** 

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

> Column 71, line 28, change "(isopropylthiazole" to --isopropylthiazole--.

Column 71, line 35, change "methyl)" to -- -methyl)--.

Column 71, line 40, change "(2" to --((2--.

Column 71, line 41, change "amino/" to --amino)--.

Column 72, line 2, change "CHCl<sub>3</sub>H)." to --CHCl<sub>3</sub>).--.

Column 72, line 4, change "diphenyl,3" to --diphenyl-3--

Column 72, line 11, change "CHCl<sub>3</sub>H)." to --CHCl<sub>3</sub>).--

Column 72, line 16, change "-N," to -- -N- --.

Column 72, line 53, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 72, line 60, change "methyl)" to -- -methyl)--.

Column 72, line 63, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 73, line 29, change "Hydroxyethyl-" to --Hydroxyethyl)-

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### UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO. :

5,541,206

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 73, line 35, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 73, line 50, change "N,((2,-" to --N-((2- --.

Column 73, line 51, change "thiazolyl-" to --thiazolyl)--.

Column 73, line 55, change "ethoxy-)" to --ethoxy)--.

Column 73, line 65, change "ethoxy-)" to --ethoxy)-

Column 74, line 3, change "ethoxy-)" to --ethoxy)--.

Column 74, line 52, change "G." to --C.--.

Column 74, line 56, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 74, line 59, change "Isopropyl," to --Isopropyl- --.

Column 75, line 18, change "(cyclopropyl" to --cyclopropyl--.

Column 76, line 2, change "isopropylthiazole" to --2-isopropylthiazole--.

Column 76, line 21, change "N," to --N- --.

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FORM PTO 1050 (Rev. 2-93)

PATENT NO. :

5,541,206

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 76, line 23, change "diphenyl," to --diphenyl- --.

Column 76, line 42, change "H" to -- H--.

Column 76, line 42, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 76, line 49, change "Ethyl-" to --Ethyl-4- --.

Column 76, line 50, change "(chloromethyl)" to --(chloromethyl)-2- -

Column 77, line 19, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 77, line 27, change "methyl" to -- -methyl--.

Column 77, line 42, change "amino)-6" to --amino)-1,6--.

Column 77, line 52, change " $H_2$ " to -- $H_2$ O--.

Column 77, line 67, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>)-

Column 78, line 33, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 78, line 41, change "N," to --N- --.

Column 80, line 19, change "thiazole" to -- -thiazole--.

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5,541,206 PATENT NO.

Abbott Laboratories 100 Abbott Park Road

Abbott Park, Illinois 60064-3500

D377 - AP6D

PATENT NO. :

July 30, 1996

DATED

Kempf et al.

INVENTOR(S):

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 81, line 3, change "[(2-" to --((2---

Column 80, line 59, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>)--

modity

Column 81, line 44, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--

Column 82, line 19, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)-

Column 82, line 30, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>

Column 82, line 40, change "Butyloxycarbonyl)amino)" to --Butyloxycarbonylamino)--.

Column 83, line 6, change "{N" to --(N--.

Column 83, line 32, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)

Column 83, line 44, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 83, line 45, change "1,65" to --1.65--.

Column 83, line 59, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)

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5,541,206

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100 Abbott Park Road

FORM PTO 1050 (Rev. 2-93)

PATENT NO. :

5,541,206

**DATED** 

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 83, line 64, change "2," to --2- --.

Column 84, line 10, change " $CH_2Cl_2H$ )." to -- $CH_2Cl_2$ ).--.

Column 84, line 11, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>)

Column 84, line 34, change "CDCl<sub>3</sub>H)" to --CDCl<sub>3</sub>)--

Column 84, line 37, change "CDCl<sub>3</sub>H)" to --CDCl<sub>3</sub>)-

Column 85, line 2, change "(CHCl<sub>3</sub>H)" to --(CHCl<sub>3</sub>)--.

Column 85, line 3, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)---

Column 85, line 7, change "CDCl<sub>3</sub>H)" to --CDCl<sub>3</sub>)-

Column 85, line 19, change "51,6" to --51.6--.

Column 85, line 31, change "(dibenzylamino)" to --dibenzylamino)

Column 85, line 49, change "CDCl<sub>3</sub>H)" to --CDCl<sub>3</sub>)--.

Column 85, line 63, change "41,6" to --41.6--.

Column 87, line 2, change "51,6" to --51.6--.

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PATENT NO. \_\_\_\_ 5.541.206

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PATENT NO. :

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DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 87, line 15, change "21,6" to --21.6--.

Column 87, line 35, change "(2S,8S,5S)" to --(2S,3S,5S)--.

Column 88, line 23, change "183.7°" to -- -183.7°--.

Column 88, line 23, change "CDCl<sub>3</sub>,δH):" to --CDCl<sub>3</sub>,δ):--.

Column 88, line 23, change "11,68" to --11.68--.

Column 88, line 30, change "40xo" to --4-0xo--.

Column 88, line 31, change "1," to -- -1--.

Column 88, line 47, change "hydroxyl" to --hydroxy--.

Column 88, line 63, change " $(Na_2SO_4H)$ " to  $--(Na_2SO_4)--$ .

Column 89, line 11, change "(1/1H)" to --(1/1)--.

Column 89, line 12, change "(Na<sub>2</sub>SO<sub>4</sub>H)" to --(Na<sub>2</sub>SO<sub>4</sub>)--.

Column 89, line 34, change "(Na<sub>2</sub>SO<sub>4</sub>H)" to --(Na<sub>2</sub>SO<sub>4</sub>)--.

Column 89, line 35, change "concentrated/n" to --concentrated in--

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PATENT NO. \_\_\_\_5,541,206

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FORM **PTO 1050** (Rev. 2-93)

PATENT NO. :

5,541,206

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 90, line 15, change "(M+18H)+" to --(M+18)+

Column 90, line 40, change "Methyl)-N-" to --Methyl-N

Column 92, line 32, change "NaHCO3H)." to --NaHCO3).--.

Column 92, line 34, change "≤45°" to --≤45°--.

Column 93, line 12, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>

Column 93, line 34, change "(aqueous pH+7H)" to --(aqueous pH**=7**)--.

Column 93, line 35, change "≤45°" to --≤45°--

Column 93, line 41, change " $NH_2H$ " to -- $NH_2$ )--

Column 93, line 67, change "61,6" to --61.6--.

Column 95, line 4, change "121,6," to --121.6,--.

Column 95, line 63, change "amino/" to --amino)--.

Column 96, line 65, change "Gin" to --Gln-

MAILING ADDRESS OF SENDER:

PATENT NO.

Abbott Laboratories 100 Abbott Park Road Abbott Park, Illinois 60064-3500 D377 - AP6D

PATENT NO. :

5,541,206

**DATED** 

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 99, line 12, change " $(R_bH)(R_dH)$ " to -- $(R_b)(R_d)$ --.

Column 99, line 13, change " $(R_bH)(R_dH)$ " to -- $(R_b)(R_d)$ --.

Column 99, line 15, change "-N- $(R_eH)(R_fH)$ ," to --- $N(R_e)(R_f)$ ,--.

Column 99, line 18, change " $(CH_2H)$ " to -- $(CH_2)$ --.

Column 99, line 19, change "(CH<sub>2</sub>H)2OCH" to --(CH<sub>2</sub>)<sub>2</sub>OCH-

Column 99, line 34, change " $(R_gH)$ " to -- $(R_g)$ --.

Column 99, lines 34 and 35, change " $(R_gH)$ " to -- $(R_g)$ --.

Column 99, line 40, change "2363H)" to --2363)--.

Column 101, line 9, change "(1976H)" to --(1976)--

Column 101, line 13, change "(1H)" to --(1)--.

Column 101, line 15, change "(2H)" to --(2)--.

Column 101, line 54, change "AU721," to --AL-721,--.

Column 101, line 61, change "R<sub>82193</sub>," to --R82193,--.

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Abbott Park, Illinois 60064-3500

D377 - AP6D

5,541,206

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July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 101, line 64, change "R<sub>82150</sub>," to --R82150,--.

Column 102, line 25, change "(gp120H)" to --(gp120)--.

Column 102, line 25, change "(gp120H)" to --(gp120)--.

Column 102, line 26, change "(gp160H)" to --(gp160)--.

Column 102, line 26, change "(gp160H)" to --(gp160)--.

Column 102, line 27, change "(p24H)" to --(p24)--.

Column 105, line 32, change "-N- $(R_8)$ -" to ---  $N(R_8)$ - ---

Column 105, lines 48 and 49, change "(N-methoxycarbonyl)" to --(N-((5-thiazolyl)methoxycarbonyl)--.

Column 105, line 50, change "Isopropyl)-4" to --Isopropyl-4

Column 106, line 49, change "- $CH_2$ -Nor- $(R_8)$ -" to --- $CH_2$  or - $N(R_8)$ -

Column 107, line 54, change "NHR<sub>8</sub>a" to --NHR<sub>8a</sub>--.

Column 108, line 12, change "3hydroxyhexane;" to --3-hydroxyhexane--.

MAILING ADDRESS OF SENDER:

Abbott Laboratories 100 Abbott Park Road Abbott Park, Illinois 60064-3500 D377 - AP6D

PATENT NO. :

5,541,206

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

> Column 108, line 17, change "4-(cyclopentenyl" to --4-cyclopentenyl--.

Column 108, between lines 25 and 26, insert -- (2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(3-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino-1,6-diphenyl-3-hydroxyhexane;--.

Column 108, line 35, change "1-methyl-2" to --2-methyl-1--.

Column 108, line 42, change "3hydroxyhexane;" to --3-hydroxyhexane;--.

Column 108, lines 43 and 44, change "(1,2-(cyclopentyl)" to --(cyclopentyl)--.

Column 108, line 64, change "(2-(4-fluoro)" to --(4-fluoro)--

Column 109, line 5, change "(2-methoxy)" to --(3-methoxy)

Column 109, line 29, change "2-(methyl)" to --(2-methyl)--

Column 109, line 36, change "3hydroxyhexane;" to --3-hydroxyhexane;--.

Column 109, line 46, change "N-Methyl" to --N-Ethyl-

MAILING ADDRESS OF SENDER:

5,541,206

Abbott Laboratories 100 Abbott Park Road Abbott Park, Illinois 60064-3500

D377 - AP6D

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FORM PTO 1050 (Rev. 2-93)

PATENT NO. :

5,541,206

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 110, line 44, change "(N,N-" to --(N-(N- --.

Column 110, line 48, change "(N,N-" to --(N-(N- --.

Column 111, line 1, change "(N,N-" to --(N-(N- --.

Column 111, line 9, change "(N,N-" to --(N-(N---.

Column 111, line 13, change "(N,N-" to --(N-(N----

Column 111, line 18, change "(N,N-" to --(N-(N----

Column 111, line 22, change "(N,N-" to --(N-(N- --.

Column 112, line 9, change "(N,N-" to --(N-(N- --.

Column 112, line 13, change "(N,N-" to --(N-(N---.

Column 112, lines 39 and 40, change "methyl)" to -- -4-thiazolyl)methyl)--.

Column 113, line 24, change "-2(N-" to -- -2-(N- --.

Column 113, line 63, change "(N,N-" to --(N-(N- --.

MAILING ADDRESS OF SENDER:

PATENT NO. \_\_\_\_\_5,541,206

Abbott Laboratories 100 Abbott Park Road Abbott Park, Illinois 60064-3500 D377 - AP6D

PATENT NO. :

5,541,206

**DATED** 

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 114, line 13, change "(N,N-" to --(N-(N---.

Column 114, line 30, change "(N,N-" to --(N-(N- --.

Column 114, line 35, change "-5-(N-" to -- -5-(N-(N- --.

MAILING ADDRESS OF SENDER:

5,541,206 PATENT NO.

Abbott Laboratories 100 Abbott Park Road Abbott Park, Illinois 60064-3500

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D377 - AP6D

FORM PTO 1050 (Rev. 2-93)

PATENT NO. :

5,541,206

Page 1 of 22

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-indentified patent and that said Letters Patent is hereby corrected as shown below:

Column 3, line 55, change "AI" to --A1--.

Column 8, line 46, change "4 thiazolyl" to --4-thiazolyl--.

Column 8, line 58, change "valinyl" to -- -valinyl--.

Column 8, line 66, change "valinyl" to -- -valinyl--.

Column 8, line 66, change "methoxycarbonyl)amino" to --thiazolyl)methoxycarbonyl)amino--.

Column 9, line 2, change "amino)carbonyl" to --amino)-carbonyl--.

Column 9, line 3, change "amino-" to --amino)- --.

Column 9, line 6, change "amino)carbonyl)" to --amino)-carbonyl)--.

Column 9, line 7, change "amino)1" to --amino-1--.

Column 9, line 14, change "amino)carbonyl)" to --amino)-carbonyl)--.

Column 9, line 18, change "amino)carbonyl)" to --amino)-carbonyl)--.

#### UNITED STATES PATENT AND TRADEMARK OFFICE

### **CERTIFICATE OF CORRECTION**

PATENT NO.

5,541,206

Page 2 of 22

DATED

July 30, 1996

INVEL FOR(S):

Kempf et al.

It is certified that error appears in the above-indentified patent and that said Letters Patent is hereby corrected as shown below:

Columns 9 and 10, scheme 1, lines 50-55, change

to -- Scheme 1

$$R_{30}O \underset{O}{\text{H}} \underset{N}{\overset{H}{\overset{}}} CHO$$
 $R_{30}O \underset{N}{\overset{H}{\overset{}}} \underset{O}{\text{H}} \underset{N}{\overset{}} OH$ 
 $R_{30}O \underset{N}{\overset{H}{\overset{}}} \underset{O}{\overset{}} \underset{N}{\overset{}} OH$ 
 $R_{30}O \underset{N}{\overset{}} \underset{N}{\overset{}} \underset{N}{\overset{}} OH$ 
 $R_{30}O \underset{N}{\overset{}} \underset{N}{\overset{}} \underset{N}{\overset{}} OH$ 

Columns 13 and 14, scheme 3, line 43, change "NO2" to --NH2--.

Column 17, line 34, change "(:or" to --(or--.

Column 20, line 42, change "XL. III" to --XLIII--.

Column 26, line 54, change "2.5" to --2,5--.

Column 26, line 55, change "3.4" to --34 --.

Column 26, line 55, change "1.6" to --1,6--.

Column 26, line 56, change "2.5" to --2,5--.

PATENT NO. :

5,541,206

Page 3 of 22

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-indentified patent and that said Letters Patent is hereby corrected as shown below:

Column 26, line 56, change "3.4" to --3,4--.

Column 26, line 57, change "1.6" to --1,6--.

Column 27, line 53, change "1.6" to --1,6--.

Column 27, line 64, change "amino)1," to --amino)-1,--.

Column 28, line 10, change "2.5" to --2,5--.

Column 28, line 45, change "Thioformamide," to -- Thioformamide.--.

Column 31, line 41, change "1.6" to --1,6--.

Column 31, line 60, change "1H 7.85" to --1H), 7.85--.

Column 33, line 6, change "4thiazolyl" to --4-thiazolyl--.

Column 33, line 27, change "-amino)" to -- amino)--.

Column 34, lines 29-30, change "thiazolylmethyl" to --thiazolyl)methyl--.

Column 34, line 31, change "1.6" to --1,6--.

Column 35, line 2, change "amino-2" to --amino)-2--.

Column 35, line 3, change "amino)-6" to --amino)-1,6--.

Column 35, line 15, change "2-1-isopropylthiazole" to --2-Isopropylthiazole--.

### UNITED STATES PATENT AND TRADEMARK OFFICE

**CERTIFICATE OF CORRECTION** 

PATENT NO. :

5,541,206

Page 4 of 22

DATED : INVENTOR(S) :

July 30, 1996 Kempf et al.

It is certified that error appears in the above-indentified patent and that said Letters Patent is hereby corrected as shown below:

Column 35, line 44, change "1H" to --1H),--.

Column 36, line 3, change "d)," to --(d,--.

Column 36, line 8, change ",5-" to -- -5- --.

Column 36, line 10, change "1.6" to --1,6--.

Column 36, line 22, change "1.6" to --1,6--.

Column 37, line 11, change ",2-" to -- -2- --.

Column 37, line 15, change "1867H)." to --1867).--.

Column 38, lines 5 and 6, delete "-5-(tert-Butyldimethylsilyloxy)"

Column 38, line 6, change "butyloxycarbonylamino-" to --butyloxycarbonylamino)- --.

Column 38, line 57, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 39, line 36, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 40, line 36, change "(N,N-Dimethylamino)" to --(N-((2-(N,N-Dimethylamino--.

Column 43, line 13, change "-thiazolyl)" to -- -4-thiazolyl)--.

Column 43, lines 21 and 22, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>)--.

#### UNITED STATES PATENT AND TRADEMARK OFFICE

#### CERTIFICATE OF CORRECTION

PATENT NO. :

5,541,206

Page 5 of 22

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-indentified patent and that said Letters Patent is hereby corrected as shown below:

Column 43, line 27, change "amino}" to --amino)--.

Column 43, line 33, change "1.6" to --1,6--.

Column 43, line 63, change "propyl" to --Isopropyl--.

Column 44, line 5, change "N" to --(N--.

Column 44, line 7, change "1.6" to --1,6--.

Column 44, line 9, change "methyl)N-" to --methyl-N- --.

Column 44, line 22, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>)--.

Column 47, line 10, change "-4-nitrophenyl)" to -- -(4-nitrophenyl)--.

Column 47, line 39, change "(2S,3S,5S)" to --(2S,3S,5S)--.

Column 47, line 40, change "-2," to -- -2- --.

Column 47, line 41, change "1.6" to --1,6--.

Column 47, line 47, change "N(-" to --N- --.

Column 47, line 58, change " $(M+NH_4H)+$ " to  $--(M+NH_4)+--$ .

Column 48, line 4, change "amino)1," to --amino)-1,--.

Column 48, line 25, change "1Hydroxymethyl)" to --(Hydroxymethyl)--.

Column 48, line 41, change "(DMSO-d6)" to --(DMSO-d6)--.

PATENT NO. :

5,541,206

Page 6 of 22

DATED

July 30, 1996 Kempf et al.

INVENTOR(S):

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 49, line 32, change "4dimethylaminopyridine" to --4-dimethylaminopyridine--.

Column 50, line 4, change "thiazolyl/" to --thiazolyl)--.

Column 50, line 5, change "methylaminocarbonyl)" to --methylamino)carbonyl)--.

Column 51, line 42, change "1.,6" to --1,6--.

Column 51, line 51, change "1,-Diethoxy" to --1,1-Diethoxy--.

Column 51, line 23, change "(methoxymethyl)thiazole" to --(methoxymethyl)-thiazole--.

Column 52, line 28, change "-3hydroxyhexane" to -- -3-hydroxyhexane--.

Column 53, line 3, change "2.68;" to --62.68;--.

Column 53, line 8, change "-6-diphenyl" to -- -1,6-diphenyl--.

Column 53, line 11, change "amino--" to --amino-2- --.

Column 53, line 20, change "(DMSO-d<sub>6</sub>),5" to --(DMSO-d<sub>6</sub>)  $\delta$ --.

PATENT NO. :

5,541,206

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 53, line 37, change "-8-" to -- -2- --.

Column 54, line 2, change "carbonyl.)" to --carbonyl)--.

Column 57, line 5, change "-16-diphenyl" to --1,6-diphenyl--.

Column 57, line 26, change "(2S,3R,4, R,5S)" to --(2S,3R,4R,5S)--.

Page 7 of 22

Column 58, line 27, change "4,dihydroxy" to --4-dihydroxy--.

Column 59, line 29, change "1.6" to --1,6--.

Column 59, line 37, change "(2S,3 8,5S)" to --(2S,3S,5S)--.

Column 59, line 63, change "5thiazolyl" to --5-thiazolyl--.

Column 60, line 45, change "-4oxazolyl" to -- -4-oxazolyl)--.

Column 60, line 61, change "valinyl)-5-" to --valinyl)amino)-5- --.

Column 61, line 52, change "-4oxazolyl)" to -- -4-oxazolyl)--.

Column 61, line 56, change "4thiazolyl)" to --4-thiazolyl)--.

Column 61, line 64, change "4oxazolyl)" to --4-oxazolyl--.

PATENT NO. :

5,541,206

**DATED** 

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 61, line 66, change "5isoxazolyl)" to --5-isoxazolyl)--.

Page 8 of 22

Column 62, line 1, change "4thiazolyl)" to --4-thiazolyl)--.

Column 62, line 6, change "carbonyl)" to -- -carbonyl)--.

Column 62, line 10, change "carbonyl)" to -- -carbonyl)--.

Column 62, line 15, change "amino)1" to --amino)-1--.

Column 62, line 21, change "carbonyl)" to -- -carbonyl)--.

Column 62, line 41, change "valinyl)-2-" to --valinyl)amino)-2- --.

Column 63, line 1, change "4thiazolyl)" to --4-thiazolyl)--.

Column 63, line 14, change "carbonyl)" to -- -carbonyl)--.

Column 63, line 37, change "amino)" to -- -amino)--.

Column 63, line 41, change "carbonyl)" to -- -carbonyl)--.

Column 64, line 2, change "carbonyl)" to -- -carbonyl)--.

Column 64, line 6, change "amino)" to -- -amino)--.

PATENT NO. :

5,541,206

Page 9 of 22

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 64, line 14, change "4thiazolyl)" to --4-thiazolyl)--.

Column 64, line 18, change "carbonyl)" to -- -carbonyl)--.

Column 64, line 21, change "carbonyl)" to -- -carbonyl)--.

Column 64, line 24, change "amino" to -- -amino)--.

Column 64, line 29, change "carbonyl)" to -- -carbonyl)--.

Column 64, line 33, change "carbonyl)" to -- -carbonyl)--.

Column 64, line 37, change "carbonyl)" to -- -carbonyl)--.

Column 64, line 41, change "carbonyl)" to -- -carbonyl)--.

Column 64, line 49, change "methyl)" to -- -methyl)--.

Column 64, line 53, change "amino" to -- -amino)--.

Column 65, line 10, change "methyl)" to -- -methyl)--.

Column 65, line 25, change "carbonyl)" to -- -carbonyl)--.

Column 65, line 42, change "amino)1," to --amino)-1,--.

PATENT NO. :

5,541,206

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 66, line 14, change "carbonyl)" to -- -carbonyl)--.

Page 10 of 22

Column 66, line 29, change "carbonyl)" to -- -carbonyl)--.

Column 66, line 33, change "carbonyl)" to -- -carbonyl)--.

Column 66, line 37, change "amino)" to -- -amino)--.

Column 66, line 41, change "carbonyl)" to -- -carbonyl)--.

Column 66, line 65, change "amino)" to -- -amino)--.

Column 67, line 57, change "amino)" to -- -amino)--.

Column 67, line 61, change "amino)" to -- -amino)--.

Column 68, line 2, change "amino)" to -- -amino)--.

Column 68, line 10, change "carbonyl)" to -- -carbonyl)--.

Column 68, line 32, change "amino)" to -- -amino)--.

Column 70, line 41, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>)--.

PATENT NO. :

5,541,206

Page 11 of 22

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 71, line 28, change "(isopropylthiazole" to --isopropylthiazole--.

Column 71, line 35, change "methyl)" to -- -methyl)--.

Column 71, line 40, change "(2" to --((2--.

Column 71, line 41, change "amino/" to --amino)--.

Column 72, line 2, change "CHCl<sub>3</sub>H)." to --CHCl<sub>3</sub>).--.

Column 72, line 4, change "diphenyl,3" to --diphenyl-3--.

Column 72, line 11, change "CHCl<sub>3</sub>H)." to --CHCl<sub>3</sub>).--.

Column 72, line 16, change "-N," to -- -N- --.

Column 72, line 53, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 72, line 60, change "methyl)" to -- -methyl)--.

Column 72, line 63, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 73, line 29, change "Hydroxyethyl-" to --Hydroxyethyl)- --.

PATENT NO. :

5,541,206

Page 12 of 22

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 73, line 35, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 73, line 50, change "N,((2,-" to --N-((2---.

Column 74, line 3, change "ethoxy-)" to --ethoxy)--.

Column 74, line 52, change "G." to -- C.--.

Column 74, line 56, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 74, line 59, change "Isopropyl," to --Isopropyl- --.

Column 75, line 18, change "(Cyclopropy1" to --Cyclopropy1--.

Column 76, line 2, change "isopropylthiazole" to --2-isopropylthiazole--.

Column 76, line 21, change "N," to --N- --.

PATENT NO. :

5,541,206

Page 13 of 22

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 76, line 23, change "diphenyl," to --diphenyl- --.

Column 76, line 42, change "H" to --1H--.

Column 76, line 42, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 76, line 49, change "Ethyl-" to --Ethyl-4- --.

Column 76, line 50, change "(chloromethyl)" to --(chloromethyl)-2- --.

Column 77, line 19, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 77, line 27, change "methyl" to -- -methyl--.

Column 77, line 42, change "amino)-6" to --amino)-1,6--.

Column 77, line 52, change "H<sub>2</sub>" to --H<sub>2</sub>O--.

Column 77, line 67, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>)--.

Column 78, line 33, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 78, line 41, change "N," to --N- --.

Column 80, line 19, change "thiazole" to -- -thiazole--.

PATENT NO. :

July 30, 1996

DATED

Kempf et al.

Page 14 of 22

INVENTOR(S):

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 80, line 59, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>)--.

Column 81, line 3, change "[(2-" to --((2---.

Column 81, line 44, change " $^1$ H NMR (CDC1 $_3$ H" to  $^{11}$ H NMR (CDC1 $_3$ )

Column 82, line 19, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 82, line 30, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>)--.

Column 82, line 40, change "Butyloxycarbonyl)amino)" to --Butyloxycarbonylamino)--.

Column 83, line 6, change "{N" to --(N--.

Column 83, line 32, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 83, line 44, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 83, line 45, change "1,65" to --1.65--.

Column 83, line 59, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

PATENT NO. :

5,541,206

Page 15 of 22

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 83, line 64, change "2," to --2- --.

Column 84, line 10, change "CH<sub>2</sub>Cl<sub>2</sub>H)." to --CH<sub>2</sub>Cl<sub>2</sub>).--.

Column 84, line 11, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>)--.

Column 84, line 34, change "CDCl<sub>3</sub>H)" to --CDCl<sub>3</sub>)--.

Column 84, line 37, change "CDCl<sub>3</sub>H)" to --CDCl<sub>3</sub>)--.

Column 85, line 2, change "(CHCl<sub>3</sub>H)" to --(CHCl<sub>3</sub>)--.

Column 85, line 3, change "(CDCl<sub>3</sub>H)" to --(CDCl<sub>3</sub>)--.

Column 85, line 7, change "CDCl<sub>3</sub>H)" to --CDCl<sub>3</sub>)--.

Column 85, line 19, change "51,6" to --51.6--.

Column 85, line 31, change "(dibenzylamino)" to --dibenzylamino)--.

Column 85, line 49, change "CDCl<sub>3</sub>H)" to --CDCl<sub>3</sub>)--.

Column 85, line 63, change "41,6" to --41.6--.

Column 87, line 2, change "51,6" to --51.6--.

PATENT NO. :

5,541,206

Page 16 of 22

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 87, line 15, change "21,6" to --21.6--.

Column 87, line 35, change "(2S,8S,5S)" to --(2S,3S,5S)--.

Column 88, line 23, change "183.7°" to -- -183.7°--.

Column 88, line 23, change "CDCl<sub>3</sub>, $\delta$ H):" to --CDCl<sub>3</sub>, $\delta$ ):--.

Column 88, line 23, change "11,68" to --11.68--.

Column 88, line 30, change "40xo" to --4-oxo--.

Column 88, line 31, change "1," to -- -1--.

Column 88, line 47, change "hydroxyl" to --hydroxy--.

Column 88, line 63, change "(Na<sub>2</sub>SO<sub>4</sub>H)" to --(Na<sub>2</sub>SO<sub>4</sub>)--.

Column 89, line 11, change "(1/1H)" to --(1/1)--.

Column 89, line 12, change "(Na<sub>2</sub>SO<sub>4</sub>H)" to --(Na<sub>2</sub>SO<sub>4</sub>)--.

Column 89, line 34, change "(Na<sub>2</sub>SO<sub>4</sub>H)" to --(Na<sub>2</sub>SO<sub>4</sub>)--.

Column 89, line 35, change "concentrated/n" to --concentrated in--.

PATENT NO. :

5,541,206

Page 17 of 22

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 90, line 15, change " $(M+18H)^+$ " to  $--(M+18)^+$ --.

Column 90, line 40, change "Methyl)-N-" to --Methyl-N- --.

Column 92, line 32, change "NaHCO<sub>3</sub>H)." to --NaHCO<sub>3</sub>).--.

Column 93, line 12, change "(DMSO-d<sub>6</sub>H)" to --(DMSO-d<sub>6</sub>)--.

Column 93, line 34, change "(aqueous pH+7H)"

--(aqueous pH=7)--.

Column 93, line 41, change "NH<sub>2</sub>H)" to --NH<sub>2</sub>)--.

Column 93, line 67, change "61,6" to --61.6--.

Column 95, line 4, change "121,6," to --121.6,--.

Column 95, line 63, change "amino/" to --amino)--.

Column 96, line 65, change "Gin" to --Gln--.

PATENT NO. :

5,541,206

Page 18 of 22

DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 99, line 12, change " $(R_bH)(R_dH)$ " to  $-(R_b)(R_d)$ --.

Column 99, line 13, change " $(R_bH)(R_dH)$ " to -- $(R_b)(R_d)$ --.

Column 99, line 15, change "-N- $(R_eH)(R_fH)$ ," to --- $N(R_e)(R_f)$ ,--.

Column 99, line 18, change " $(CH_2H)$ " to -- $(CH_2)$ --.

Column 99, line 19, change " $(CH_2H)2OCH$ " to -- $(CH_2)_2OCH$ --.

Column 99, line 34, change " $(R_gH)$ " to -- $(R_g)$ --.

Column 99, lines 34 and 35, change " $(R_gH)$ " to -- $(R_g)$ --.

Column 99, line 40, change "2363H)" to --2363)--.

Column 101, line 9, change "(1976H)" to --(1976)--.

Column 101, line 13, change "(1H)" to --(1)--.

Column 101, line 15, change "(2H)" to --(2)--.

Column 101, line 54, change "AU721," to --AL-721,--.

Column 101, line 61, change "R<sub>82193</sub>," to --R82193,--.

PATENT NO. :

5,541,206

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DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 101, line 64, change "R<sub>82150</sub>," to --R82150,--.

Column 102, line 25, change "(gp120H)" to --(gp120)--.

Column 102, line 25, change "(gp120H)" to --(gp120)--.

Column 102, line 26, change "(gp160H)" to --(gp160)--.

Column 102, line 26, change "(gp160H)" to --(gp160)--.

Column 102, line 27, change "(p24H)" to --(p24)--.

Column 105, line 32, change "-N- $(R_8)$ -" to ---  $N(R_8)$ - ---

Column 105, lines 48 and 49, change "(N-methoxycarbonyl)" to --(N-((5-thiazolyl)methoxycarbonyl)--.

Column 105, line 50, change "Isopropyl)-4" to --Isopropyl-4--.

Column 106, line 49, change "- $CH_2$ -Nor- $(R_8)$ -" to --- $CH_2$  or - $N(R_8)$ ---.

Column 107, line 54, change "NHR<sub>8</sub>a" to --NHR<sub>8a</sub>--.

Column 108, line 12, change "3hydroxyhexane;" to --3-hydroxyhexane--.

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DATED

July 30, 1996

INVENTOR(S):

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 108, line 17, change "4-(cyclopentenyl" to --4-cyclopentenyl--.

Column 108, between lines 25 and 26, insert --(2S,3S,5S)-5-(N-(N-(N-Methyl-N-((2-(3-propenyl)-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino-1,6-diphenyl-3-hydroxyhexane;--.

Column 108, line 35, change "1-methyl-2" to --2-methyl-1--.

Column 108, line 42, change "3hydroxyhexane;" to --3-hydroxyhexane;--.

Column 108, lines 43 and 44, change "(1,2-(cyclopentyl)" to --(cyclopentyl)--.

Column 108, line 64, change "(2-(4-fluoro)" to --(4-fluoro)--.

Column 109, line 5, change "(2-methoxy)" to --(3-methoxy)--.

Column 109, line 29, change "2-(methyl)" to --(2-methyl)--.

Column 109, line 36, change "3hydroxyhexane;" to --3-hydroxyhexane;--.

Column 109, line 46, change "N-Methyl" to --N-Ethyl--.

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**DATED** 

July 30, 1996

INVENTOR(S):

Kempf et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

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Column 110, line 44, change "(N,N-" to --(N-(N- --.

Column 110, line 48, change "(N,N-" to --(N-(N- --.

Column 111, line 1, change "(N,N-" to --(N-(N---.

Column 111, line 9, change "(N,N-" to --(N-(N- --.

Column 111, line 13, change "(N,N-" to --(N-(N---.

Column 111, line 18, change "(N,N-" to --(N-(N- --.

Column 111, line 22, change "(N,N-" to --(N-(N---.

Column 112, line 9, change "(N,N-" to --(N-(N- --.

Column 112, line 13, change "(N,N-" to --(N-(N---.

Column 112, lines 39 and 40, change "methyl)" to -- -4-thiazolyl)methyl)--.

Column 113, line 24, change "-2(N-" to -- -2-(N- --.

Column 113, line 63, change "(N,N-" to --(N-(N- --.

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DATED

July 30, 1996

INVENTOR(S):

Kempf et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 114, line 13, change "(N,N-" to --(N-(N---.

Column 114, line 30, change "(N,N-" to --(N-(N- --.

Column 114, line 35, change "-5-(N-" to -- -5-(N-(N- --.

Signed and Sealed this

Twenty-first Day of July, 1998

Attest:

**BRUCE LEHMAN** 

Attesting Officer

Commissioner of Patents and Trademarks